



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re the Application of:

RAJIV RAMASWAMI, ET AL.

Application No.: 10/648,025

Filed: August 26, 2003

For: **METHOD AND APPARATUS FOR
OPTICAL TO ELECTRICAL TO
OPTICAL CONVERSION IN AN
OPTICAL CROSS-CONNECT SWITCH**

Art Group: 2872

Examiner: Unassigned

INFORMATION DISCLOSURE STATEMENT UNDER 37 C.F.R. §1.97

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

In accordance with the duty of disclosure, enclosed is a copy of Information Disclosure Statement by Applicant (form PTO/SB/08), which is being submitted before the mailing of a first Office Action. It is respectfully requested that the cited references be considered and that the enclosed copy of PTO/SB/08 be initialed by the Examiner to indicate such consideration and a copy thereof returned to applicant(s). Some or all of the references listed on the enclosed PTO/SB/08 were previously identified in the parent application (Application No. 09/704,439, filed November 1, 2000) and copies of the references were furnished at that time. Accordingly, per 37 CFR §1.98(d)(1) additional copies of those references are not submitted herewith.

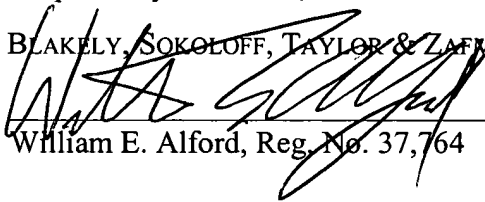
The submission of this Information Disclosure Statement is not to be construed as a representation that a search has been made in the subject application and is not to be construed as an admission that the information cited in this statement is material to patentability.

Please charge any fees due to Deposit Account 02-2666. A duplicate copy of the Fee Transmittal (PTO/SB/17) is enclosed for this purpose.

Respectfully submitted,

BLAKELY, SOKOLOFF, TAYLOR & ZAFMAN LLP

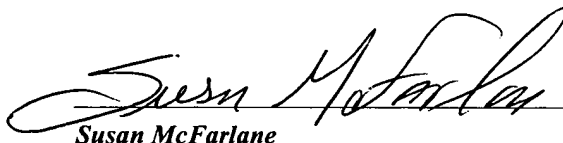
Date: December 04, 2003



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Los Angeles, CA 90025
Telephone: (714) 557-3800

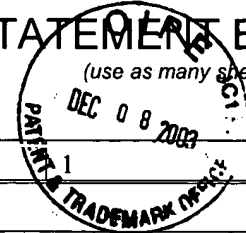
I hereby certify that this correspondence is being deposited with the United States Postal Service on the date shown below with sufficient postage as first class mail in an envelope addressed to: Mail Stop Missing Parts, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.



Susan McFarlane

12-04-03

Date

Substitute for Form 1449A/PTO (Modified) INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>				Complete if Known		
				Application Number		10/648,025
				Filing Date		August 26, 2003
				First Named Inventor:		Rajiv Ramaswami
				Group Art Unit		2872
				Examiner Name		Unassigned
Sheet <u>1</u> of <u>9</u>				Attorney Docket Number <u>3239P081D</u>		
U.S. PATENT DOCUMENTS						
Exam. Initial*	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Issue/ Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number Code ²	Kind (If known)			
		3,651,392		Frisch, et al.	3/21/1972	
		4,365,863		Broussaud	12/28/1982	
		4,369,523		Seki, et al.	1/18/1983	
		4,437,190		Rozenwaig, et al.	3/13/1984	
		4,470,154		Yano	9/4/1984	
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		4,886,335		Yanagawa, et al.	12/12/1989	
		4,897,830		Hill, et al.	1/30/1990	
		4,903,225		Brost	2/20/1990	
		4,982,446		Lord, et al.	1/1/1991	

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		Office ³	Number ⁴	Kind Code ⁵ (If known)				
		WO	86/04205		PCT	07/17/86		
		WO	86/05649		PCT	09/25/86		
		WO	90/14734		PCT	11/29/90		
		WO	91/01603		PCT	02/07/91		
		WO	95/19689		PCT	07/20/95		
		EP	0 674 457	A2	Fujitsu	09/27/95		
		EP	0 721 275	A2	EPO	12/28/95		

Examiner Signature	Date Considered
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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹Unique citation designation number. ²See attached Kinds of U.S. Patent Documents. ³Enter Office that issued the document, by the two-letter code (WIPO Standard S.3). ⁴For Japanese patent documents, the indication of the year of reign of the Emperor must precede the serial number of the patent document. ⁵Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶Applicant is to place a check mark here if English language Translation is attached.

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		4,984,238		Watanabe, et al.	1/8/1991	
		5,035,482		ten Berge, et al.	7/30/1991	
		5,037,173		Sampsel, et al.	8/6/1991	
		5,157,652		Walker	10/20/1992	
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		✓ EP	0 752 794	A2	EPO	01/08/97		
		✓ EP	0 759 681	A2	EPO	02/26/97		
		✓ EP	0 809 384	A2	EPO	05/20/97		
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		✓ EP	0 857 000	A2	EPO	01/30/98		
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		✓ WO	98/54863		PCT	05/27/98		

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		Number Code ²	Kind (If known)			
		5,524,153		Laor	6/4/1996	
		5,535,293		Buchin	7/9/1996	
		5,539,328		Mirov, et al.	7/23/1996	
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		5,781,537		Ramaswami, et al.	7/14/1998	
		5,793,746		Gerstel, et al.	8/11/1998	
		5,801,863		Fatehi, et al.	9/1/1998	
		5,825,877		Dan, et al.	10/20/1998	

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		<input checked="" type="checkbox"/> EP	0 849 906	A2	Fujitsu	06/24/98		
		<input checked="" type="checkbox"/> EP	0 898 440	A2	EPO	02/24/99		
		<input checked="" type="checkbox"/> GB	2347570	A	United Kingdom	03/03/99		
		<input checked="" type="checkbox"/> WO	99/13656		PCT	03/18/99		
		<input checked="" type="checkbox"/> WO	99/18751		PCT	04/15/99		
		<input checked="" type="checkbox"/> EP	0 910 138	A1	EPO	04/21/99		
		<input checked="" type="checkbox"/> EP	0 932 069	A1	EPO	07/28/99		

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		Number Code ²	Kind (If known)			
		5,825,949		Choy, et al.	10/20/1998	
		5,828,476		Bonebright, et al.	10/27/1998	
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		Office ³	Number ⁴	Kind Code ⁵ (If known)				
		WO	99/40738		Tol Johannes Jacobus Gerardus	08/12/99		
		EP	0 938 244	A2	Fujitsu	08/25/99		
		WO	00/13210		PCT	09/09/99		
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		EP	0 953 854	A1	EPO	11/03/99		
		WO	99/59272		PCT	11/18/99		
		WO	99/63374		Laor	12/09/99		

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		6,047,331		Medard, et al.	4/4/2000	
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		WO	99/63531		Laor	12/09/99		
		WO	99/66354		Laor	12/23/99		
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		WO	00/04671		Laor	01/27/00		
		WO	00/13210	A2	Xros, Inc.	03/09/00		
		WO	00/13210	A3	Xros, Inc.	03/09/00		
		WO	00/20899		PCT	04/13/00		

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OTHER ART - NO PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T ²
		A. HIMENO, R. NAGASE, T. ITO, K.KATO AND M. OKUNO; Photonic Inter-Module Connector Using 8x8 Optical Switches for Near-Future Electronic Switching Systems; IEICE Transactions on Communications; E77-B (1994) February, No. 2, Tokyo, JP	
		LIN, L.Y. et al.; Micro-Electro-Mechanical Systems (MEMS) for WDM Optical-Crossconnect Networks, Milcom 1999; IEEE Military Communications Conf Proceedings; Atlantic City, NJ 10/31-11/3/99; pgs. 954-957.	
		S. OKAMOTO, et al.; Optical Path Cross-Connect Node Architectures for Photonic Transport Network, Journal of Lightwave Technology, Vol. 14, No. 6, June 1996, pgs. 1410-1422.	
		GUSTAFFSON, K. & HOK, B., A Batch-Processed Optical Scanner Proc. 12th Nordic Semiconductor Meeting, Jevnaker (Oslo: Center for Industrial Research) pp. 282-285, 1996.	
		GUSTAFFSON, K. & HOK, B., Fiberoptic Switching and Multiplexing with a Micromechanical Scanning Mirror, Digest of Technical Papers, 4th Int. Conf. On Solid State Sensors and Actuators (Tokyo: Institute of Electrical Engineers of Japan) pp. 212-215, 1985.	
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		LIN L.Y., et al., Free-Space Micromachined Optical-Switching Technologies and Architectures, OFC/100C '00, February 21-26, 1999.	
		LAOR, H., et al., Performance of a 576x576 Optical Cross Connect, NFOEC-99.	
		Types and Characteristics of SDH Network Protection Architectures; ITU-T Recommendation G.841 10/98.	
		RAJIV RAMASWAMI & KUMAR SIVARAJAN, Optical Networks: A Practical Perspective, Morgan Kaufmann Pub. 1998, pp 152-161.	
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		CHAD WHITE, The Photonic Switch Completes the Much-Vaunted All-Optical Network, Technology Investor, October 2000, pp 28-31.	

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OTHER ART - NO PATENT LITERATURE DOCUMENTS

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		<input checked="" type="checkbox"/> BISCHOFF, et al., Operation and Maintenance for an All-Optical Transport Network, IEEE Communications, Magazine, pp 136-142, 11/1996.	
		<input checked="" type="checkbox"/> LIN. et al., Free-Space Micromachined Optical Switches with Submillisecond Switching Time for Large-Scale Optical Crossconnects, pp 525-527, 04/1998.	
		<input checked="" type="checkbox"/> KAUFMAN, et al., The Optical Internet, A New Network Architecture, pp 1-13.	
		<input checked="" type="checkbox"/> SIMON, et al., All Optical Regeneration, IEEE, pp 53-54.	
		<input checked="" type="checkbox"/> PETER WONG & MARK YIN, An Economic Analysis for Core Optical Transport Networks.	
		<input checked="" type="checkbox"/> CRAIG LABOVITZ, ABHA AHUJA, FARNAM JAHANAIAAN, Experimental Study of Internet Stability and Backbone Failures, IEEE, pp 278-285, 1999.	
		None of Applications	
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